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N. P. Klitin, V. A. Lokshin.

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U.K. Atomic Energy Authority
Risley, TRG Inf Ser 127(W)

Sci - Phys
Jul 62

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HEAT TRANSFER AND HYDRAULIC RESISTANCE DURING
HELICAL FLOW OF A ~~XXXXXX~~ FLUID IN A TUBE, BY
M. KH. IBRAGIMOV, YE. V. NOMOFILOV, ET AL,
9 PP.

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PP 57-60. # 9665790

FTD-TT-62-315

SCI - PHYS
JUL 62

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An Experimental Investigation of the Specific Heat of a 94% Concentration of Ethyl Alcohol (by Weight) in the Super-Critical Region for the State Variables, by
S. L. Rivkin and B. N. Egorov,
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pp 60667.
NLL RTS 3038
(On Loan or Purchase)

Sci-
Apr 67

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Experimental Study of Contact Heat Exchange, by
Yu. P. Shlykov, E. A. Ganin, 10 pp.
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pp 73-76. 9691561

DDC RSIC-128

Ssci - Phys
Mar 64

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Future Steam-Turbine Units of High Capacity,
by L. A. Shubenko-Shubin.
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NNL/M 5024

Sci -
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Overlap and Energy Losses in a Turbine Stage, by
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pp 12-17.

NLL M 5025

Sci - Engr
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Investigating the Operation of a Group of End
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APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84

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NLL M 5026

Sci - Engr
Apr 63

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300880006-3

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Investigation of Low Frequency Pulsations in Gas
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MLL M. 3617

Sci - Engr

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Roughness of Steam Superheating Pipes, Made of Alloy Steels, by V. A. Lokshin, G. I. Moseyev.

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ALL M. 3573

Sci - Engr

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INVESTIGATION OF HYDRAULIC RESISTANCE IN
THE CASE OF FLOW OF SUBCOOLED WATER IN
A SMALL-DIAMETER TUBE WITH HIGH HEAT
FLUXES. [1961] 8p.
Order from ATS \$13.65

ATS-26N55R

Trans. of Teploenergetika (USSR) 1961, v. 8, no. 8,
p. 56-60.

DESCRIPTORS: *Fluid flow, Water, Pipes, Resistance
Hydraulic systems, Heat.

(Mechanica--Hydrodynamics, TT, v. 6, no. 12)

61-25720

- I. Ornatskii, A. P.
- II. ATS-26N55R
- III. Associated Technical
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East Orange, N. J.

REC T-4853

9095640

10.11.61

ATS RT-3861

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(SF-1877)

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JPRS 11708

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(EF-1877

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13 pp.

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NLL M 8820

Sci - Nuclear Sci & Tech
Mar 63

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Investigation of Structure and Properties of Steel
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ALL RFS 2061

Sci - M/m, Engr

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The Corrosion Cracking of 1Kh13M9T Steel in
Caustic Soda and Sodium Chloride Solutions, by
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NLL RTS 2082
ATS RT-4132

Sci - Chem

Nov 62

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Experimental Data Relating to the Hydrodynamics of
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NLL RDS 2063

Sci - Engr, Chem

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Design of Turbine Stages With Long Blades and
Variable Profile, by M. E. Deich, G. A. Filippov.

RUSSIAN, per, Teploenergetika, Vol VIII, No 9,
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NIL M. 3574

Sci - Engr

Jul 62

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THE CALCULATION OF TEMPERATURE FIELDS IN A GAS
TURBINE DISC COOLED VIA ASSEMBLY GAPS IN THE
TAIL JOINTS OF THE BLADES, BY YE. I. MOLCHANOV,
8 PP.

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FTD-TT-62-794

SCI - ENGR
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AUG 62

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DESIGN DEVELOPMENT OF STEAM TURBINE CONDENSERS, BY
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NLL M. 3728

SCI - ENGR

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Calculation of Gas and Liquid ~~MIXING~~ Mixing, by
V. M. Datskovskiy, et al.

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NIL RPS 2120

Sci - Chem

Nov 62

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(SF-1877)

Summary and Prospects of the Future Development of
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JPRS 11918

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181, 139

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JPRS 11918

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Responsiveness of a 200MW Unit With Once-Through
Boiler, by B. V. Girshfeld.

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NLL M 8822

Sci - Engr
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Stability and Transient Performance of a
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OTS TT-63-23947
NLL Ref. 9022.09 1963 (2,697)
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AEC Tr-5038

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98, 074

Sci - Phys
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Experimental Determination of the Specific Volumes
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Dept of Interior
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Sept 72

Gas Turbines for Heavy-Duty Power & Engineering,
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RUSSIAN, per, Teploenergetika, No 11, 1961,
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NLL M 5045

Sci - Engr
Apr 63

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An Analysis of the Optimal Steam Generator Parameters
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Sci - Phys

Jun 62

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THE RESULTS OF PERFORMANCE TESTS OF FIRE-
RESISTANT * "IVVIOL" 1A" TURBINE OIL,
BY K. I. IVANOV, YE. D. VILYANSKAYA, ET AL,
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FTD-TT-62-715

SCI -ENGR

Aug 62

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The Automation of the Combustion Process in a TP-40 Boiler, by L. S. GShumskaya.

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Sci - Engr
Apr 363

226,985

(SF-1877)

Prospects of Development of Electric
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JPRS 13533

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The Determination of Obsolescence in Thermal
Power Stations, by D. S. Stepanov.

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NLL M. 3361

Sci - Engr

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THE DESIGN OF A STAGE WITH CONICAL RESTRICTING
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FTD-TTE-62-665

SCI - ENGR
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NLL M. 3903

NLL M 5022

An Experimental Investigation of Models of a Cooled Bolt, by O. T. Il'chenko.

RUSSIAN, per, Teploenergetika, No 12, 1961, pp 60-63.

NLL M 5023

Sci - Engr
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Removal of Build up by Salts on Turbine Stages Operating in a Unit With Core-Through Boilers, by N. I. Serebryanikov, Z. P. Belyankina.

RUSSIAN, per, Teploenergetika, Vol VIII, No 12, 1961, pp 63-66.

NLL M 8821

Sci - Engr
Mar 63

APPROVED FOR RELEASE: Thursday, December 13, 2001
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by N. I. Serebryanikov, Z. P. Belyankina.

RUSSIAN, per, Teploenergetika, Vol VIII, No 12,
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RUSS M 8821

Sci - Engr
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IN THE NEXT 20 YEARS, 11 PP.

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JPRS L3915

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SCI - FUELS

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Effect of Ultrasound on the Process of
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NLL Ref: 9022.09 1963 (2761) (Loan)

Sci - Phys
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THE DETERMINATION OF THE OPTIMUM VALUE OF THE
~~MARKER~~ UPPER OVERLAPPING OF A BANDAGED TURBINE
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FTD-TT-62-736

SCI -ENGR
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NLL Ref: 9022.03 1963 (3215) (Lent)

207,976

Measurement of Natural Stresses in Steam Piping,
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NIL Ref: 5828.4 1962 (5288)
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Sci - Engr
Jul 63

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Operating Experience With TsKTI Conductivity
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No 1, 1962, pp 36-39.

NLL Ref: 9022.09 1963, (2713) (Loan)

Sci - Elec
Feb 64

248,593

Chemical Interaction of Iron and Haematite in
the Solid State, by A. N. Khlapova.

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MLL M 8894

Sci - M/M
8Feb 63

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Experimental Determination of the Specific Volumes of
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EXPERIMENTAL DETERMINATION OF THE SPECIFIC HEAT OF
WATER IN THE CRITICAL REGION, BY A. M. SIROTA,
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NLL M. 3762

SCI - PHYS

OCT 62

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NLL M. 3763

SCI - PHYS

OCT 62

214,707

Heat Transfer During Motion of Liquid in Coil
Shaped Pipes, by I. Z. Aronov. 7 pp.
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SLA TT-64-18790

Sept 66

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Investigation of Heat Transfer During the Cooling
of Water in the Near-Critical Region, by M. E.
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Sci - Engr
May 63

NLL PTS 2133 230,654

(SF-1877)

Ways of Increasing the Rate and Lowering
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JPRS 13717

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Sci - Engr
May 62

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(ST-1677)

Economic Effectiveness of Making Larger
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JPRS 13717

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Determination of Dissolved Oxygen in Water, by
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NLL M 8893

Sci - Chem
Feb 63

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AEC-tr-5414

Sci - M/m

Jan 63

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Thermodynamic Properties of Tungsten in the
Temperature Range 0 - 2400°C, by V. A. Kirillin,
A. E. Sheindlin, V. Ya. Chelkovskiy, 9 pp.
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pp 63-66. P911249167
AEC ANL Tr-452

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Sci - Physics
Aug 67

**A Study of the Process of Convective Heat
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L. M. Kovalenko, 5 pp.**

**RUSSIAN, per, Teploenergetika, No 2, 1962,
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FTD-TT-62-1175

**Sci - Engr, Phys
Nov 62**

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New Method of Constructing Thermodynamic Diagrams
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Z Yu. S. Trelin.

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NLL RTS 2206
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Sci- Engr
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Terent'ev, I. K.
EFFECT OF THE DEGREE OF PARTIAL ADMISSION
ON THE DEGREE OF REACTION IN A TURBINE
STAGE. [1963] [7p] *Sov. C. E. Trans.* 3043.
Order from OTS or SLA \$1.10 63-24096

Trans. of Teploenergetika (USSR) 1962, v. 9, no. 3,
p. 18-21.

DESCRIPTORS: Turbines, *Turbine parts, Turbine
blades, *Nozzles, Fluid flow, Equations.

A formula is derived in this article for determining
the degree of reaction of a simple stage as a function of
the degree of partial admission. A comparison is
presented of experimental theoretical data. (Author)

(Machinery--Engines, TT, v. 10, no. 12)

63-24096

I. Terent'ev, I. K.
II. CE Trans-3043
III. Central Electricity
Generating Board
(Gt. Brit.)

Office of Technical Services

On the Use of Rotating Diffuser Apparatuses in
Centrifugal Compressor Machines by S. P.
Livshits, 14 pp.

RUSSIAN, par, Teploenergetika, No 3, 1962,
pp 25-29. 9687670

FED-TT-63-809

Sci-Engr
Nov 63

241,469

THE THEORY OF CENTRIFUGAL ATOMIZERS, BY
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RUSSIAN, PER, TEPLOENERGETIKA, NO 3, 1962,
PP 34-37. 9678075

FTD-TT-62-900

SCI - ENGR
SEP 62

209,693

Calculating Cross Section of Safety Valves for Dust
Explosion, by S. S. Shagalova, V. A. Reznik.

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NLL Ref: 9022.09 1963 (2818) (loan)

May 64

Effect of Hydrazine on the Process of Formation of Iron Oxide Scale, by N. N. Mankina, 13 pp.

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GB/10/2769

(LOAN) NLL Ref. 9022.09 1963 (2,679)

CEGB 2769

OTS 68-15700-1 63-23965

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Sci-M & M
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of a Magnetohydrodynamic Generator, by D. P. Gokhshteyn,
14 pp.

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FED-TI-62-1326

NLL (Loan) Ref: 9022.09 1963(2668)

Sci - Electron
Jan 63

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The Experimental Analysis of the Enthalpy of
Steam, by M. P. Vukalovich.

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pp 56-63.

NLL M 3890

Sci - Phys
Mar 63

726,613

Thermodynamic Properties of Tungsten in the
Temperature Range 0-2400°C, by V. A. Kirillin,
A. E. Sheindlin, V. Ya. Chekhovskoi.
ITALIAN, per, Teploenergetika, Vol 9, No 3,
1962, pp 63-6.
AEC ANL-Tr-452

Sci - Mat
Sept 67

342,281

Measurement of Turbulent Temperature ~~RMXX~~
Pulsations in Liquid Flow, by V. I. Subbotin,
M. Kh. Ibragimov, 13 pp.

RUSSIAN, per, Teploenergetika, No 3, 1962,
pp 64-67. 9679710

FTD-TT-62-1455

Sci-Phys
Mar 63

234,809

Heat Transfer During the Condensation of High-
Pressure Steam in Pipes, by Z. L. Miropol'skiy,
13 pp.
RUSSIAN, per, Teploenergetika, Vol IX, No 3, 1962,
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AEC-Tr-6431

Sci-Phys
Nov 64

268,544

Thermionic Energy Converters, by I.I. Demaskina,
G. A. Chetverikova, 9 pp.

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FTD-TT-62-666

Sci - Electron
Nov 62

216,893

(SF-1877)

SOME RESULTS OF THE WORK OF POWER SYSTEM IN
1961, BY I. I. BONDAREV, 10 PP.

RUSSIAN, PER, TEPLOENERGETICA, NO 4, 1962,
PP 3-6.

JPRS 14270

SCI - ELECTRICITY
JUL 62

201,971

Experimental ~~an~~ Dynamic Characteristics of
the Steam Reheater in a PK-33-83SP Boiler,
by N. I. Davydev, 10 pp.

RUSSIAN, per, Teploenergetika, Vol IX, No 4,
1962, pp 7-12.

OTS TT-63-23950
NLL Ref. 9022.09 1963 (2,721)
(Loan)

Sci - Engr
Nov 63

242,334

Chertkov, N. K.
SOME SYSTEMS OF AUTOMATIC WEIGHING OF
LOADS ON CONVEYERS. [1963] [10p] 5refs
C. E. Trans. 2754.
Order from OTS or SLA \$1.10 63-24083

Trans. of Teploenergetika (USSR) 1962 [v. 9] no. 4,
p. 12-17.

DESCRIPTORS: *Conveyors, Loading (Mechanics),
Weighing, Automatic, Fuels, *Transportation.

The operation of the better-known systems of weighing
loads on conveyer bands is examined. (Author)

(Machinery--Transport, TT, v. 10, no. 12)

63-24083

I. Chertkov, N. K.
II. CE Trans-2754
III. Central Electricity
Generating Board
(Gt. Brit.)

Office of Technical Services

An Investigation and Aerodynamic Perfecting of
Cascades of Profiles in the Last Stage of the
S. M. Kirov KhTZ K-300 -240 Turbine, by M. I.
Zhukovskiy, N. A. Sknar.

RUSSIAN, per, Teploenergetika, Vol IX, No 4, 1962,
pp 32-36.

NLL M 3918

Sci - Aerospace, Engr
Mar 63

226,612

Budnyazkii, D. M.
DIE BESTIMMUNG DES GÜNSTIGSTEN ENDDRUCKES
FÜR KONDENSATIONSTURBINEN-ANLAGEN
(Determination of the Optimum End-thrust for Con-
densation-turbine Systems). 14p.
Order from TIB 52.35

Trans. in German of Teploenergetika (USSR) 1962
[v. 9] no. 4, p. 37-42.

DESCRIPTORS: *Pressure, Condensation, *Turbines.

(Machinery--Engines, TT, v. 9, no. 11)

62-27303

I. Budnyazkii, D. M.
II. Technische Informations-
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Efficiency of District-Heating Steam Turbines, by
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JPRS 15529

USSR
Econ
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DESCRIPTORS: *Boilers, *Boiler tubes, *Heat transfer, Combustion deposits, Coal, Particles, Cyclone furnaces, Combustion chamber gases.

The heat transfer was determined with a cyclone furnace burning anthracite culm under a boiler $D = 230/275$ t/hr, $p = 100$ atm, $t_{\text{reheat}} = 500^{\circ}\text{C}$. The quantity of heat absorbed by the bundle was determined according to the heat balance of the gases before and after the bundles, obtained by determining the air currents entering the precombustion chambers, determining the coefficient of air-excess in the gases behind (Physics--Thermodynamics, TT, v. 11, no. 5) (over)

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NLI Ref: 9022.09 1963 (2709) (Loan)

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p. 3-9. (Abstract available)

DESCRIPTORS: Flames, *Coal, *Fuels, *Combustion,
Particles, Furnaces, Thermal radiation.

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